



# MARSHALL STAR

Serving the Marshall Space Flight Center Community

Feb. 3, 2005

## We remember...



*The crew of the Space Shuttle Columbia was lost Feb. 1, 2003. They are, seated from left, Rick D. Husband, mission commander; Kalpana Chawla, mission specialist; William C. McCool, pilot; and standing from left, David M. Brown, mission specialist; Laurel Clark, mission specialist; Michael P. Anderson, payload commander; and Ilan Ramon, payload specialist from the Israeli Space Agency.*

## A letter of remembrance from Marshall Director David King

We take pause to reflect over the two years that have passed since losing the Columbia and her crew, STS-107. We honor their memory and their sacrifice. We remember their work, their passion and their spirit of adventure. Each day we work harder to improve our standards of safety and to make individual and collective improvements as a whole. The loss of

STS-107 was the impetus for change, and as a result, we have experienced a transformation and rebirth of this Agency.

Anyone who had ties to the space program on Feb. 1, 2003, knows what a difficult and challenging time the past 24 months have been. We stayed the course and kept our promise to the crew's family to find and fix the cause. We have all endured patiently as we went back to the

drawing board – to do it better than ever.

As you go throughout the day, please remember that all of the work toward return to flight has been in honor of our dear friends and colleagues of STS-107. It is our tribute to them, it is our obligation to America, and it affords us the opportunity to continue the crew's dream to explore.

Let us remember them this day and in the future as we continue our journey to fly safely.

# "We can never repay the debt..." ---O'Keefe

*Editor's note: The following is a statement from NASA Administrator Sean O'Keefe regarding the Day of Remembrance.*

On Thursday, NASA observes a Day of Remembrance honoring those members of the NASA Family who lost their lives while furthering the cause of exploration and discovery. In their memory, NASA flags at Headquarters and every Center fly at half-mast. We will hold a ceremony for the entire NASA Family that will be broadcast live at 1 p.m. CST from the Headquarters auditorium, and I ask you all to join me in a moment of silence at that time.

At NASA, we recognize the risks inherent in what we do on a day-to-day basis. It is our highest priority to ensure the safety of all of our employees, and when tragedy occurs every one of us feels it deeply. Since the earliest days of the agency, none of our greatest triumphs have been achieved without great struggle and sacrifice. But it is our responsibility to

ensure that those sacrifices were not made in vain.

Not a single day goes by in which we do not think of our valiant colleagues lost in this great quest that we pursue. I remain extremely proud of the NASA Family's efforts to honor their colleagues' remarkable legacy through an unwavering commitment to enhance mission safety and to keep pioneering the space frontier.

Thus it is that today we mark this solemn occasion with great hope for the future. A living memorial to our colleagues' legacy will be our continued focus on the Vision for Space Exploration, which will take human explorers back to the moon and then on to other worlds beyond our own.

In 2004, President Bush observed, "Exploration is not an option we choose. It is a desire written in the human heart. We are that part of creation which seeks to understand all creation. We find the best



Marshall team members Irene Staten, left, and Jackie Milhorn discuss the Columbia memorial plaque that hangs in the lobby of Bldg. 4200.

Photo by David Higginbotham, Marshall Center

among us, send them forth into unmapped darkness and pray they will return. They go in peace for all mankind, and all mankind is in their debt."

We know that we can never repay the debt we owe all of our fallen colleagues, but with those hopeful words in our heart, we can honor their legacy each and every day.

## Marshall bids farewell to these long-time employees

### Retirements, resignations and NASA buyouts from Dec. 9-Jan. 31.

*From the Human Resources Office*

Avery, Patricia  
Allums, Steve  
Armstrong, Rex  
Beam, Alicia  
Beam, Everette  
Beckham, Richard  
Blackwell, Douglas  
Boglio, William L.  
Bowling, Bernice  
Brown, Norman  
Burgreen, Jerre  
Burton, Donald  
Casteel, Chris L.  
Caudle, Ronald J.  
Cleveland, Linda  
Clifford, Carolyn

Crabtree, William  
Crane, Charles G.  
Eddleman, Helen  
Edwards, Polly  
Flanagan, Gerald  
Glasgow, Spencer  
Golden, Betty K.  
Grady, Ethel  
Graves, Brenda  
Griffin, Madge  
Guynes, Barry  
Haislip, David H.  
Hicks, Maria  
Hill, Daniel Craig  
Holloway, Melanie  
Hubbard, Dorthy S.  
Hughes, Clinton L.  
Hughes, Robert  
Ivey, Vickie  
Jarzembski, Maurice  
Johnston, James  
Kidd, Jerry W.  
Krebsbach, Alfred  
Landers, Sherry  
Lehner, Jack

Lindsay, Jim  
Lynam, Tracy  
Lynn, Emory  
Malmede, Clovis Jr.  
McClendon, Mary  
McGlathery, Laverta  
McKemie, Robert  
Meeks, Glynda  
Miller, Lois  
Miller, Ruth Dianne  
Mordan, Gustav  
Morris, Lena F.  
Murray, James W.  
Mynatt, Elaine B.  
Newton, Carol A.  
Newton, Lowell  
Pabon-Medina, Norman  
Peters, Palmer  
Phillips, Robert  
Poe, Brenda  
Powers, William  
Ragland, Ollie  
Reed, Leila  
Richard, Victor Jr.  
Rickles, Peggy

Russell, Larry  
Seborg, Dave  
Seymour, Sandra  
Slaten, Doyle  
Spaulding, Mary  
Stephens, John  
Stokes Jack Jr.  
Stone, Russell  
Story, Katie J.  
Strickland, William  
Thomas, Charles  
Welch, Ricky A.  
Whirley, Jere  
Whitehead, Catherine  
Wieland, Paul O.  
Wilson, Adrian  
Winkler, Charles  
Wyckoff, James  
Xenofos, Danny



# Marshall Center saves drenched city artifacts

By Patricia Dedrick Lloyd

When the contents of Huntsville's time capsule were recently pulled from their vault buried in the lawn of the Madison County Courthouse, they were drenched in water. If not for the quick action of Huntsville Bicentennial Commission members, a half-century of history would have been lost.

The contents, which included a Huntsville telephone directory, photos and a 16mm film reel, had to immediately be frozen and shipped to a restoration company in New York where the items would be slowly thawed. Over time, water had seeped into the 300-pound vault buried by the City of Huntsville in 1955 as part of its sesquicentennial celebration. The opening of the time capsule on Jan. 20 kicked off the city's year-long bicentennial celebration. Now the items had to be quickly frozen to stop swelling and bacterial growth.

Mary Jane Caylor, director of the Huntsville Bicentennial Commission, called the Marshall Center for help. The Environmental Test Branch and Structural and



Photos by Dennis Olive/ Marshall Center

**From left, Calvin Benjamin of Qualis Corp., Jim Poff with the City of Huntsville, Tim Thornton of Qualis Corp., and Randy Stephens of ET24 remove one of many time capsule artifacts from a bag as they prepare to freeze them for shipment to New York for evaluation and restoration.**

Environmental Test Division responded.

"These are valuable and important artifacts to the people who waited 50 years to see what was in the time capsule. I can't say how much it meant to us to have Marshall help us with this," Caylor said. "I knew I could trust Marshall. I knew if it could be done, it could be done at Marshall."

Jim Poff, with the City of Huntsville

Landscape Department, transported the artifacts to Marshall's Environmental Test Facility labs the next day in garbage bags. They were removed from the bags and placed in two environmental test chambers where they were frozen to minus 20 degrees Celsius. The chambers were staffed over the weekend to make certain there were no malfunctions, said Randy Stephens, technical assistant at the Environmental Test Facility. Then, Marshall team members boxed the artifacts in dry ice for shipment to New York.

"I witnessed a great example of government coming to the aid of, and serving the community," said Tim Thornton, operations manager for Qualis Corp., a Marshall contractor whose employees assisted in the effort. "I am very proud of everyone involved in this teaming and the resulting accomplishment."

It's not everyday work for the environmental test facility team. But Stephens said it was not the first time Marshall had been called on to help restore wet documents.

When a Civil War museum in Selma flooded, its directors asked the Marshall Center to help remove the water from the



**Calvin Benjamin, left, of Qualis Corp., and Jim Poff, of the City of Huntsville Landscape Department, place time capsule artifacts into the freeze chamber at Marshall's Environmental Test Facility in Bldg. 4619.**



## CFC 'special moments' continue



George Steil, left, and his daughter, Lauren, pose with David King, Marshall Center director. Lauren, a third-grade student at Columbia Elementary School in Madison, and her dad won the CFC silent auction that featured a tour of the center and lunch with King.

The Marshall Center's Combined Federal Campaign's special moments continued last week with a visit from winners of the CFC silent auction who dined with Center Director David King. Maj. Gen. James Pillsbury of Redstone Arsenal and chairman of the Tennessee Valley Combined Federal Campaign also honored the center for surpassing its fundraising goal by \$65,000.



Photos by Emmett Given, Marshall Center

After lunch, King, left, presents Lauren a memento of her visit to Marshall while Rosa Kilpatrick of the Government and Community Relations Office looks on.



Maj. Gen. James Pillsbury, third from left, presents the 2004 Chairman's Award to Marshall Center Associate Director Robin Henderson, holding plaque, for the center's extensive CFC fundraising effort. Others from Marshall recognized during the Tennessee Valley CFC Awards Jan. 20 are from left, Carolyn McMillan, loaned executive; Rosa Kilpatrick, local Federal Coordinating Committee member; Lowell Newton, finance chairman; and Barbara Breithaupt, Marshall CFC executive chairwoman.

## Black History Month celebration set for Feb. 17 at Sparkman Center

TEAM Redstone will celebrate Black History Month with a program commemorating the 100th anniversary of The Niagara Movement at 9:30 a.m., Feb. 17, at the Sparkman Center on Redstone Arsenal.

The Niagara Movement was the first significant black organized protest movement of the 20th century. Guests include Lisa Washington, NewsChannel 19 anchor and performers from the nationally acclaimed Aeolians of Oakwood College.

The Second Annual "Taste of Soul" Food Festival will immediately follow.

Admission is free. For more information, call Chanel Leslie at 544-3740.

## Star Gazing

*From the Marshall History and Archives Files*

Forty years ago today, Feb. 3, 1965, the *Marshall Star* reported that the seventh anniversary of the launch of Explorer 1, America's first satellite, was celebrated during the past weekend with a "Fort Bliss Old-timers Association meeting." Retired Maj. Gen. J.B. Medaris, former commander of Army missile programs at Redstone Arsenal, spoke to 200 rocket "Old-timers" during the event. Association members were missile-space pioneers associated with early American rocket work at Fort Bliss, Texas.

## Capsule

*Continued from page 3*

documents while maintaining the integrity of the items. Marshall developed this process after the loss of the Space Shuttle Challenger in 1986, Stephens said. Shuttle hardware recovered from the ocean floor was sent to the test facility, placed in a vacuum chamber to remove the water, then moved to a humidity chamber to replace some of the moisture and to make the items pliable again.

"It was absolutely phenomenal what Marshall did for us," Caylor said. "Accepting the artifacts was a great contribution to the community and to the Bicentennial Commission."

*The writer, an ASRI employee, is the Marshall Star editor.*

# Announcements

## ***Earth Day 2005 logo and photo contests under way***

The Marshall Center Environmental Excellence Team is sponsoring two contests to celebrate Earth Day 2005. The logo and photo contests are open to all Marshall employees and contractors. This year's Earth Day slogan is "Sustain, You Have the Ability."

Original artwork logos must be submitted on 8.5-by-11-inch white paper with no more than four colors. The deadline for submission is Feb. 25. Photography submissions must be original 5-by-7-inch prints or digital photographs that showcase Redstone Arsenal's natural environment. Submissions may be black and white or color. Entry deadline for photos is March 31. Send all entries to Ben Morrow, Bldg. 4200, Room G-11/M. See "Inside Marshall" for complete contest rules.

## ***Charitable groups may apply now to be considered for CFC funds***

The Tennessee Valley Combined Federal Campaign is accepting applications from non-profit charitable human, health and welfare organizations that want to receive CFC contributions. The organizations must be a 501 c (3) organization. Applications will be accepted from March 14-April 14. For more information or to obtain an application, call Melinda Seigler at 536-0745, ext. 108, or download the application with instructions at: <http://cfc.redstone.army.mil>

## ***AIAA dinner topic is 'Mars: Rovers Today, Humans Tomorrow'***

The American Institute of Aeronautics and Astronautics will hold a dinner meeting at 7 p.m., Feb. 22 at the Holiday Inn Research Park in Huntsville. Dr. Benton C. Clark, AIAA Distinguished Lecturer and chief scientist of Space Explorations Systems at Lockheed Martin Co., will speak on "Mars: Rovers Today, Humans Tomorrow." The cost is \$15 for students and \$20 for all others. Call Kevin Higdon at 256-679-3143 for reservations by Feb. 21.

## ***Panoply volunteers needed***

Anyone interested in volunteering for Panoply, a Huntsville-region arts festival held in April, may contact Rusty Wilkerson at [rwilkerson@panoply.org](mailto:rwilkerson@panoply.org) or at 519-2787.

## ***Medical Center screens blood pressure from noon to 3 p.m.***

February is Heart Health Month and the Marshall Center is offering blood pressure screenings for all employees. The Medical Center will check blood pressure any workday from noon to 3 p.m., and the HEMSI paramedics assigned to Marshall will stop at designated buildings once during the month to perform blood pressure checks. The times and locations for the building visits will be announced later.

## ***Valentine Dance is Feb. 12***

MARS Ballroom Dance Club will hold a Valentine Dance Feb. 12 at the Von Braun Center East Hall.

Doors open at 6:30 p.m.; dinner at 7 p.m.; and dancing is from 8 to 11 p.m. Tickets are \$20 for MARS members and \$25 for all others. Call Woody Bombara at 650-0200 or Jerry Maxwell at 544-1954 for tickets.

## ***World Year of Physics Conference is set for April 5-7 in Huntsville***

The World Year of Physics Conference will be held April 5-7 at the Von Braun Center in Huntsville. The event will include two days of invited paper presentations and a day of education outreach activities. Thirteen speakers have been invited, including two Nobel Laureates. For more information, go to <http://www.wyp-ptm.org>. The Marshall Center is a co-sponsor of the conference.

## ***Former Dryden Research Center director to speak at AIAA event***

Kenneth J. Szalai, former director of the NASA Dryden Flight Research Center, will speak Friday at an American Institute of Aeronautics and Astronautics/ University of Alabama in Huntsville student chapter event. The free event is from 6:30 - 9 p.m. in the UAH Technology Hall, room S105.

## ***NASA College Scholarship applications now available***

The NASA College Scholarship Fund, Inc. is now accepting applications from dependants of NASA employees or retirees who are pursuing a college degree in science or engineering. The application deadline is March 21. For more information and an application, go to <http://nasapeople.nasa.gov/nasascholarship/index.htm>.



## Classified Ads

### Miscellaneous

Singer sewing machine, \$25. 534-4968  
 Green/white stripe sofa bed, \$125; 7 piece  
 PVC patio set, \$125. 722-0286  
 Bread maker, cross stitch supplies. 430-4349  
 Jenny Lind baby bed with Serta mattress,  
 \$100. 353-0370  
 Texas Instruments programmable calculator,  
 fits onto included printer, \$25; nine hur-  
 ricane globes, \$1 each. 837-6776  
 Mathews Legacy 29 draw case arrows, drop  
 zone rest pendulum sight quiver, \$850.  
 348-4899  
 Matchbox X-33 "Venture Star" vehicles,  
 numbers 36-40, Series 8, complete, indi-  
 vidually packaged, mint, \$30. 256-303-3702  
 Utility trailer, 4'x8', \$300. 881-0755  
 Love seat, never used, cream print, \$275; two  
 wood end tables, \$50 each. 539-7857  
 S-10 short bed camper shell, \$125; Sunn  
 Model-T amp, \$500; Bach Stradivarius  
 trumpet, \$1,200. 851-8085  
 Full-size bed, mattress, headboard, frame,  
 \$150; Wedding dress, size 8, \$150. com-  
 puter desk, \$150. 776-9165  
 Little Tykes dual-light art desk and swivel  
 chair, \$40. 683-3027  
 Computer ink jet printer, Epson 740, \$15; Clip  
 art software, Art Explosion, 125,000, \$10.  
 232-1940  
 Kenmore electric dryer, white, \$75. 655-7292  
 Four P185/65R 14 85S Goodyear Integrity  
 tires, \$35. 883-8257  
 New black wire bird cage, 18"x18"x36"H,  
 \$50. 883-1667  
 Cherry wood crib, \$50; white metal crib, \$40;  
 twin size maple bed frame, \$30. 771-2949  
 Sony 500W 5.1 Dolby digital home theater  
 system, transferable warranty, black, \$250.  
 864-2517  
 Sansui G-8000 receiver, classic 7-s, power-  
 house, up to 300 watts power output, \$80.  
 534-4968  
 Sears Kenmore dryer, large capacity, works  
 well, will deliver, \$50. 895-9520/Philip  
 Kimball upright piano, pecan colored, bench  
 included, \$1,600. 684-0832  
 AKC German Shepherd puppies, champion  
 line, 3 females, born 9/29/04, black/tan, vet  
 checked, shots, \$375. 256-694-5912  
 Targus leather laptop bag, padded, many  
 pockets, shoulder strap, \$8. 837-8490  
 Yamaha Grand piano, 5'3", Black high polish,  
 purchased, Feb, 1999, \$8,500. 931-625-0671  
 Motorola flip cell phone, case and charger  
 for Verizon, \$60. 837-1774  
 Pennsylvania House video cabinet, Cherry,  
 up to 30" tv, vcr/dvd, \$750. 931-427-2059  
 Winbook XL notebook computer, floppy drive.  
 bad battery, everything else works, \$100.  
 256-850-4185  
 512MB PC133 SODIMM for Powerbook, 400-  
 800MHz or iBook, \$60. 776-4175  
 Four Dunlop Rover P245/70R15 tires, \$50 for  
 set. 931-625-5838  
 Meade telescope, 10" SCT, Magellan II  
 computer controller, several lenses, many  
 extras. 882-0431  
 Nitro NX-185 Bass boat w/150HP Johnson,  
 fully equipped, \$6,500. 256-659-0530  
 Nokia 5180i cell phone, batteries, charger,  
 \$65; P215-60-R16 tire, 10/32 tread, \$25; auto  
 ramps, \$20. 256-503-8040  
 Nordic Track treadmill, EXP1000X, Spac-  
 eSave, Ifit compatible, \$550; Tony Little  
 Gazelle Freestyle Elite, \$250. 883-1693  
 Two tickets to "Stomp", Feb. 11, 8 p.m., floor,  
 Row M, seats 43/44, center. 881-1061  
 Gun cabinet, wood w/double glass doors,  
 holds 12, lockable storage underneath, \$50.  
 379-3606  
 One carat round solitaire, \$1,500 firm. 881-  
 4879  
 Canon C84 printer, \$49; scanner, \$29; DVD/CD  
 4x-burner, \$39; Lexmark 3-in-1 printer, \$73.  
 489-0136

### Vehicles

2000 Honda Civic, 86k highway miles, cd,  
 remote entry, new tires, \$8,500. 895-0577  
 1996 Goldwing, white, 28k miles, matching  
 trailer, \$10,500. 508-0183  
 2001 Ford Sport Trac, gold, take up payments.  
 256-572-3574  
 1995 Nissan Sentra GXE, light blue, \$2,500.  
 256-682-4590  
 2000 Saturn SL with approx. 103k miles, one-  
 owner, gold exterior, 4-door. 883-5213  
 1995 Lexus SC300 sport coupe, v6, 53k miles,  
 custom rims, many options, \$10,900. 881-

8674  
 1986 F150 3-speed w/overdrive, 5L/6 cyl.,  
 ps/pb, crew cab, swb, class 3 hitch, \$1,500.  
 882-0461  
 2003 Mustang GT convertible, automatic, 23k  
 miles, white w/white top, 6-disc cd, war-  
 ranty, \$16,500. 464-3300  
 2000 Jeep Grand Cherokee Laredo, 4L,  
 6-cyl., 2wd, loaded, 47.2k miles, dark blue,  
 \$14,999. 325-1961  
 2000 Dakota, 56k miles, Quad Sport SLT, v8,  
 all-power, many extras, \$18,000. 256-757-  
 0204  
 1995 Chevrolet Silverado extended cab, all  
 extras, custom bed cover w/rails, bedliner,  
 no pets/smoking, \$7,500. 773-0194  
 2002 Tacoma, 4x4, automatic, bedliner, tool-  
 box, silver, \$14,200. 585-0473  
 1978 Ford F100, 351/v8, 109k miles, ac/ps/pb,  
 liner, tow package, \$4,500. 256-694-5743  
 2001 Ford Explorer Sport, v6/4L. 233-6197  
 1998 Dodge 3/4-ton, 4wd, Cummins Diesel,  
 auto, longbed, 120K miles, gooseneck/fifth  
 wheel, \$17,000. 497-3518  
 1986 full-size Ford Bronco, 4x4, currently not  
 running, best offer. 533-9683  
 1993 G20 Chevy Sherrod Hightop Conversion  
 van, 350/v8, white, tv/vcr, leather, non-  
 smoking, \$8,995. 882-2076

### Wanted

Fuser for HP Laserjet II/III printer. 883-2757  
 Rolling Stones™ rock tumbler for NASA  
 education outreach program. Contact  
 NASA explores at 544-5594  
 Used CPU for under \$200. 828-3181 leave  
 message  
 Crutches, aluminum or wood; 3.5" floppy  
 drive for pc; vertical 12hp/greater riding  
 mower engine. 881-6040  
 American Girl doll clothes and accessories.  
 256-468-1066

### Found

Verizon cell phone, Bldg. 4200. Call 544-3623  
 to claim/identify

## MARSHALL STAR

Vol. 45/No. 19

Marshall Space Flight Center, Alabama 35812  
 (256) 544-0030  
<http://www1.msfc.nasa.gov>

The Marshall Star is published every Thursday by the Internal Relations and Communications Department at the George C. Marshall Space Flight Center, National Aeronautics and Space Administration. Contributions should be submitted no later than 5 p.m. Friday to the Marshall Internal Relations and Communications Department (CS10), Bldg. 4200, room 101. Submissions should be written legibly and include the originator's name. Send electronic mail submissions to: [intercom@msfc.nasa.gov](mailto:intercom@msfc.nasa.gov) The Marshall Star does not publish commercial advertising of any kind.

Manager of Internal Relations  
 and Communications — Steven Durham  
 Editor — Patricia Dedrick Lloyd

U.S. Government Printing Office 2005-733-048-60139

Permit No. G-27  
 NASA  
 Postage & Fees PAID  
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